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- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

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1	Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line.
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
•		And the second s
2	Wrapped Aminos	The amino acid number/text at the end of each line "wrapped " down to the next line."
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
2	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
J	incorpect Line Length	The fales require that a line to a second of the fall
4	Misaligned Amino Acid	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
	Numbering	between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
		The second of th
5	Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
		Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6	Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.
·—	variable congin	As per the rules, each n or Xaa can only represent a single residue.
	•	Please present the maximum number of each residue having variable length and
		indicate in the (ix) feature section that some may be missing.
		indicate in the (ix) reading section that some may so missing.
7	Detections 20 "bug"	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
′—	Patentin ver, 2.0 "bug"	the Controller would and another property this profile from the
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
		to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
		sections for Artificial or Unknown sequences.
8	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
<u> </u>	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:
	(OLD NOCES)	(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
		This sequence is intentionally skipped
		This sequence is intermonant suppose
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
Q	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
·	(NEW RULES)	<210> sequence id number
- 1	(NEVV NOCES)	\$400> sequence id number
- 1		·
1		000
10 J	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in the Sequence Listing.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
	,	In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
		and the second state of th
11	Use of <213>Organism	Sequence(s) are missing this mandatory field or its response.
	(NEW RULES)	
• •	Head (2005 Footure	Sequence(s) are missing the <220>Feature and associated headings.
12	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings. Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
	(NEW RULES)	
	· •	Please explain source of genetic material in <220> to <223> section.
		(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules
13	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted
	ا می مادید استان است	Title, Tesalting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
	•	Instead, please use "File Manager" or any other means to copy file to floppy disk.

PCT09

Does Not Comply Corrected Diskette Needed

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/674,195

DATE: 01/11/2001 TIME: 17:17:37

Input Set : A:\65798 10_27_00.TXT Output Set: N:\CRF3\01112001\1674195.raw

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4 <1.10> APPLICANT: THE GOVERNMENT OF THE UNITED STATES OF AMERICA, AS REPRESENTED BY THE
         DEPARTMENT OF HEALTH AND HUMAN SERVICES CENTERS FOR DISEASE CONTROL AND
         PREVENTION
         ZANCOPE-OLIVEIRA, ROSALY M.
         LOTT, TIMOTHY J.
         MAYER, LEONARD W.
         REISS, ERROL
         DEEPE, JR., GEORGE S.
11
13 <120> TITLE OF INVENTION: NUCLEIC ACIDS OF THE M ANTIGEN GENE OF
         HISTOPLASMA CAPSULATUM, ISOLATED AND RECOMBINANTLY-PRODUCED
         ANTIGENS, VACCINES AND ANTIBODIES, METHODS AND KITS FOR
         DETECTING HISTOPLASMOSIS
19 <130> FILE REFERENCE: 65798 / US
21 <140> CURRENT APPLICATION NUMBER: US/09/674,195
22 <141> CURRENT FILING DATE: 2000-10-26
24 <150> PRIOR APPLICATION NUMBER: U.S. 60/083,676
25 <151> PRIOR FILING DATE: 1998-04-30
27 <150> PRIOR APPLICATION NUMBER: PCT/US99/09151
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43
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/674,195

DATE: 01/11/2001 TIME: 17:17:37

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Output Set: N:\CRF3\01112001\1674195.raw

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    ciggaaggta coctgagtgg gaggtaagat atgattcccc caaatcatta gttctgacag
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                                                                            2340
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                                                                            2400
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    cqtqateqte qtcqqcqqce tqctcacqaq cqcctcaacq caatacccaa qaqqtcqccc
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                                                                            3000
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                                                                            3120
                                                                            3180
    qaqqtttqqq qcqcaaatat qqqtttacta ccccccccc cccttttt ttttccttt
                                                                                   7 see item 10
on Eva Sunnay
Sheet
    tetgttttte catetttggt tgaggtaata ttgcagatat cagtaaattg cgtttacgaa
                                                                            3240
    agceggtgte aagettean aggeetaatt aatttgaaga ggaggttgaa gtgaaatett gglgtaacta taataattta taataactaa taactataa ttaatgteta ttgtaattte
94
                                                                            3300
                                                                            3360
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                                                                            3540
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                                                                            3600
100 atgittings thasastors actsagging groundstate titigasing organization
                                                                            3660
101 otgactatot gataaaaatg totgtattto ogottoacga ogoatgttat gactttogaa
                                                                             3720
102
    tatagatana acctguacga tttagcccct gttgggggaa ataggggtta gggggggag
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109 <213> ORGANISM: Histoplasma capsulatum
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RAW SEQUENCE LISTING DATE: 01/11/2001 PATENT APPLICATION: US/09/674,195 TIME: 17:17:37

Input Set : A:\65798 10_27_00.TXT
Output Set: N:\CRF3\01112001\1674195.raw

112 113	1		Ser		5					1.0					1.5	
114 115			Pro	20					25					30		
116 117			Val 35					40					45			
118 119		50	Lys				55					60				
120 121	65	_	Gln			70					75					80
122 123			His		85					90					95	
124 125			Trp	1.00					1.05					110		
126 127			Thr 1.15					120					125			
$\frac{128}{129}$		130	Val				1.35					140				
130 131	145		Asp			150					155					160
132 133			ile		165					170					175	
134 135	_		G l.n	180					185					190		
136 137			Trp 195					200					205			
138 139		210	Ala				215					220				
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142 143			Leu		245					250					255	
144 145			Trp	260					265					270		
146 147			G l.u 275					280					285			
$\frac{148}{149}$		290	Leu				295					300				
150 151	305		Asp			31.0					315					320
$\frac{152}{153}$			Thr	•	325	_				330					335	
154 155	_		Ala	340					345					350		
156 157	_	-	Tle 355	-				360					365			
158 159		370	Leu				375					.380				
160	Gln	Leu	Pro	Lle	Asn	Arg	oag	Arg	I l.e	Pro	Phe	His	Asn	Asn	Asn	Arg

RAW SEQUENCE LISTING DATE: 01/11/2001
PATENT APPLICATION: US/09/674,195 TIME: 17:17:37

Input Set: A:\65798 10_27_00.TXT
Output Set: N:\CRF3\01112001\1674195.raw

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164
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                                               430
165
          420
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166
167
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450 455 460
168
169
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170
     465 470
     Ala Met Arg Phe Glu Asn Ser His Val Arg Ser Glu Thr Val Arg Lys
485 490 495
172
173
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174
175
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176
177
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178
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     545 550
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187
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1.88
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                                    620
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                                  635
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192
193
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660 665 670
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1.95
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675 680 685
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PATENT APPLICATION: US/09/674,195 TIME: 17:17:37 Input Set : A:\65798 10_27_00.TXT Output Set: N:\CRF3\01112001\1674195.raw 214 <212> TYPE: PRT 215 <213> ORGANTSM: Histoplasma capsulatum 217 <400> SEQUENCE: 4 218 Asp Phe Ile Phe Arg Gln Lys Ile Gln His Phe Asp His Glu Arg 221 <210> \$EQ ID NO: 5 222 <211> LENGTH: 9 223 <212> TYPE: PRT 224 <213> ORGANISM: Histoplasma capsulatum 226 <400> SEQUENCE: 5 227 Thr Leu Gln Gly Arg Ala Gly Leu Val 228 1 5 230 <210> SEQ ID NO: 6 231 <211> LENGTH: 16 232, <212> TYPE: PRT 233 <213> ORGANISM: Histoplasma capsulatum 235 <400> SEQUENCE: 6 236 Ala Gln Ala Leu Gly Gly Lys Asn Pro Asp Phe His Arg Gln Asp Leu 237 1 5 10 15 239 <210> SEO ID NO: 7 240 <211> LENGTH: 6 241 <212> TYPE: PRT 242 <213> ORGANISM: Histoplasma capsulatum 244 <400> SEQUENCE: 7 245 Ser Gly Arg Tyr Pro Glu 246 1 5 248 <210> SEQ ID NO: 8 249 <211> LENGTH: 10 250 <212> TYPE: PRT 251 <213> ORGANISM: Histoplasma capsulatum 253 <400> SEQUENCE: 8 254 Phe Asp Phe Asp Leu Leu Asp Pro Thr Lys 255 1 5 10 257 <210> SEQ ID NO: 9 258 <211> LENGTH: 14 259 <212> TYPE: PRT 260 <213> ORGANISM: Histoplasma capsulatum 262 <400> SEQUENCE: 9 263 The The Pro Glu Glu Leu Val Pro Phe Thr Pro The Gly Lys 5 1.0 264 1 266 <210> SEO ID NO: 10 267 <211> LENGTH: 15

RAW SEQUENCE LISTING

DATE: 01/11/2001

15

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274 <400> SEQUENCE: 10

275 aaraayccvg aytty

272 <223> OTHER INFORMATION: Primer R=AG, Y=CT, V=AGC

271 <220> FEATURE:

VERIFICATION SUMMARY

DATE: 01/11/2001

PATENT APPLICATION: US/09/674,195

TIME: 17:17:38

Input Set : A:\65798 10_27_00.TXT

Output Set: N:\CRF3\01112001\1674195.raw

L:21 M:270 C: Current Application Number differs, Replaced Current Application Number L:22 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:94 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1 L:94 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1

L:94 M:258 W: Mandatory Feature missing, <222> not found for SEQ 1D#:1

L:94 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1 L:94 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEO ID#:1 L:286 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:11 L:286 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:11

L:286 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ 1D \sharp :11

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/674,195

1	_ Wrapped Nucleics	The number/text at the end of each line "wrapped" down to the next line
	A Secretary of the second	This may occur if your file was retrieved in a word processor after creating it.
	- 4	Please adjust your right margin to .3, as this will prevent "wrapping".
2	Wrapped Aminos	The amino acid number/lext at the end of each line "wrapped " down to the next line."
		This may occur if your file was retrieved in a word processor after creating it.
		Please adjust your right margin to .3, as this will prevent "wrapping".
		The state of the s
3	Incorrect Line Length	The rules require that a line not exceed 72 characters in length. This includes spaces.
4	_ Misaligned Amino Acid	The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
	Numbering	between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
5	_ Non-ASCII	This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
	_	Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
6	_ Variable Length	Sequence(s) contain n's or Xaa's which represented more than one residue.
	· .	As per the rules, each n or Xaa can only represent a single residue.
		Please present the maximum number of each residue having variable length and
		indicate in the (ix) feature section that some may be missing.
7	Patentin ver. 2.0 "bug"	A "bus" is Details version 2.0 has saysed the <2205 <2225 section to be missing from amine asid
′	_ ratentin ver. 2.0 bug	A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
		sequence(s) Normally, Patentin would automatically generate this section from the
		previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
		sections for Artificial or Unknown sequences.
		sections for Artificial or Offknown sequences.
8	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
	(OLD RULES)	(2) INFORMATION FOR SEQ ID NO:X:
	, ,	(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
		(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
		This sequence is intentionally skipped
		Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
9	Skipped Sequences	Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
i	(NEW RULES)	<210> sequence id number
- 1	•	<400> sequence id number
1		000
J		
10	Use of n's or Xaa's	Use of n's and/or Xaa's have been detected in the Sequence Listing.
	(NEW RULES)"	Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
		In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
11	Use of <213>Organism	Sequence(s) are missing this mandatory field or its response.
··-	(NEW RULES)	Sequence(s) are missing this mandatory held of its response.
	(11217 110220)	
12	Use of <220>Feature	Sequence(s) are missing the <220>Feature and associated headings.
	(NEW RULES)	Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
	(Please explain source of genetic material in <220> to <223> section.
		(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
		(Sec. 1.623 of new Rules)
13	Patentin ver. 2.0 "bug"	Please do not use "Copy to Disk" function of Patentln version 2.0. This causes a corrupted
	المستعدد	file, Testilling in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
	•	Instead, please use "File Manager" or any other means to copy file to floppy disk.